

## CONTENTS

	PAGE
NEVITT, G. A. AND MOODY, W. J. An electrophysiological characterization of ciliated olfactory receptor cells of the coho salmon <i>Oncorhynchus kisutch</i> .....	1
YOUNG, I. S., ALEXANDER, R. MCN., WOAKES, A. J., BUTLER, P. J. AND ANDERSON, L. The synchronization of ventilation and locomotion in horses ( <i>Equus caballus</i> ) .....	19
TANG, J. AND WARDLE, C. S. Power output of two sizes of Atlantic salmon ( <i>Salmo salar</i> ) at their maximum sustained swimming speeds.....	33
FRANKLIN, C. E. AND DAVIE, P. S. Dimensional analysis of the ventricle of an <i>in situ</i> perfused trout heart using echocardiography .....	47
GOOLISH, E. M. Swimbladder function and buoyancy regulation in the killifish <i>Fundulus heteroclitus</i> .....	61
DUNLOP, J. A., ALTRINGHAM, J. D. AND MILL, P. J. Coupling between the heart and sucking stomach during ingestion in a tarantula .....	83
WILSON, R. W. AND TAYLOR, E. W. Transbranchial ammonia gradients and acid-base responses to high external ammonia concentration in rainbow trout ( <i>Oncorhynchus mykiss</i> ) acclimated to different salinities .....	95
BÖHM, H. AND SCHILDBERGER, K. Brain neurones involved in the control of walking in the cricket <i>Gryllus bimaculatus</i> .....	113
RUSSELL, V. E. W., KLEIN, U., REUVENI, M., SPAETH, D. D., WOLFERSBERGER, M. G. AND HARVEY, W. R. Antibodies to mammalian and plant V-ATPases cross react with V-ATPase of insect cation-transporting plasma membranes .....	131
THOMASON, J. J., BIEWENER, A. A. AND BERTRAM, J. E. A. Surface strain on the equine hoof wall <i>in vivo</i> : implications for the material design and functional morphology of the wall.....	145
PAPI, F., LUSCHI, P. AND LIMONTA, P. Orientation-disturbing magnetic treatment affects the pigeon opioid system .....	169
SCHULTE, P. M., MOYES, C. D. AND HOCHACHKA, P. W. Integrating metabolic pathways in post-exercise recovery of white muscle .....	181
MONDRAGÓN, R. AND FRIXIONE, E. Conditional inhibition of screening-pigment aggregation by lidocaine in crayfish photoreceptors and frog retinal pigment epithelium .....	197
HURWITZ, I. AND SUSSWEIN, A. J. Adaptation of feeding sequences in <i>Aplysia oculifera</i> to changes in load and width of food .....	215
FEDER, M. E. AND BOOTH, D. T. Hypoxic boundary layers surrounding skin-breathing aquatic amphibians: occurrence, consequences and organismal responses .....	237
ALLEN, C. U., HERMAN, B. AND GRANGER, N. A. Fura-2 measurement of cytosolic free Ca <sup>2+</sup> concentration in corpus allatum cells of larval <i>Manduca sexta</i> .....	253
BLOCK, B. A., BOOTH, D. AND CAREY, F. G. Direct measurement of swimming speeds and depth of blue marlin .....	267
STEPHENSON, R. AND JONES, D. R. Blood flow distribution in submerged and surface-swimming ducks .....	285
MARSHALL, W. S., BRYSON, S. E. AND WOOD, C. M. Calcium transport by isolated skin of rainbow trout.....	297
INFORMATION ABOUT THE JOURNAL	